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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No.: ISPH-0587

Inventors: Butler et al.

Serial No.: 09/915,814

Filing Date: July 26, 2001

Examiner: Not Yet Assigned

Group Art Unit: Not Yet Assigned

Title: Antisense Modulation of Hormone-Sensitive Lipase Expression

#4 / I.D.S

I, **Jane Massey Licata**, Registration No. 32,257, certify that this correspondence is being depositing with the U.S. Postal Service as First Class mail in an envelope addressed to the Assistant Commissioner for Patents and Trademarks, Washington, D.C. 20231.

On this date: October 17, 2001

Jane Massey Licata  
Jane Massey Licata, Registration No. 32,257

Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

**INFORMATION DISCLOSURE STATEMENT**

Pursuant to 37 C.F.R. §1.56 and in accordance with 37 C.F.R. §§1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 C.F.R. §1.56(b).

(XX) In accordance with §1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into

the national stage of the above identified application as set forth in §1.491, or before the mailing date of a first Office Action on the merits of the above-identified application, no additional fee is required.

- ( ) In accordance with §1.97(c), this Information Disclosure Statement is being filed after the period set forth in §1.97(b) above but before the mailing date of either a Final Action under §1.113 or a Notice of Allowance under §1.311, therefore:

- ( ) Certification in Accordance with §1.97(e) is set forth below; or

- ( ) The fee of \$180.00 as set forth in §1.17(p) is attached.

- ( ) In accordance with §1.97(d), this Information Disclosure Statement is being filed after the mailing date of either a Final Action under §1.113 or a Notice of Allowance under §1.311 but before the payment of the Issue Fee, therefore included are: Certification in Accordance with §1.97(e); Petition Requesting Consideration of the Information Disclosure Statement; and the fee of \$130.00 as set forth in §1.17(i)(1).

(xx) Copies of each of the references listed on the attached Form PTO-1449 (modified) are enclosed herewith.

- ( ) In accordance with §1.98(d), copies of some or all of the references listed on the attached Form PTO-1449 (modified) are not enclosed herewith because they were previously

submitted to the U.S. Patent and Trademark Office in prior application Serial No. \_\_\_\_\_, filed \_\_\_\_\_, for which a claim for priority under 35 U.S.C. §120 has been made in the instant application.

Please charge any deficiency or credit any overpayment to Deposit Account No. 50-1619. This form is submitted in duplicate.

☒ (XX) The relevance of the listed references in a foreign language is as stated in the specification at page 4.

☐ ( ) All listed references are in the English language.

Respectfully submitted,

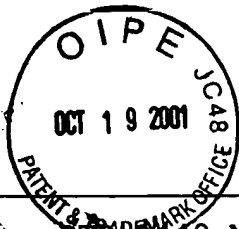
*Jane Massey Licata*

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Registration No. 32,257

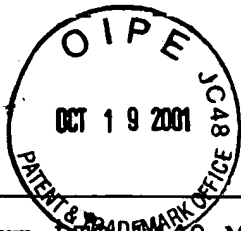
Date: October 17, 2001

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<b>Form PTO-449 Modified</b>  List of Patents and Publications Cited by Applicant (Use several sheets if necessary)  U.S. Department of Commerce	Docket No. <b>ISPH-0587</b>	Serial No. <b>09/915,814</b>
	Applicant <b>Butler et al.</b>	
	Filing Date <b>July 26, 2001</b>	Group <b>Not Yet Assigned</b>
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>		
AA	Agardh et al., "The effects of tolbutamide on lipoproteins, lipoprotein lipase and hormone-sensitive lipase", <i>Diabetes Res. and Clinical Practice</i> <b>1999</b> 46:99-108	
AB	Escary et al., "Paradoxical effect on atherosclerosis of hormone-sensitive lipase overexpression in macrophages", <i>J. Lipid Res.</i> <b>1999</b> 40:397-404	
AC	Gercel-Taylor et al., "Aberrations in Normal Systemic Lipid Metabolism in Ovarian Cancer Patients <sup>1</sup> ", <i>gynecologic Oncology</i> <b>1996</b> 60:35-41	
AD	Hellström et al., "Adipocyte lipolysis in normal weight subjects with obesity among first-degree relatives", <i>Diabetologia</i> <b>1996</b> 39:921-928	
AE	Holm et al., "Hormone-Sensitive Lipase:Sequence, Expression, and Chromosomal Localization to 19 cent-13.3", <i>Science</i> <b>1988</b> 241:1503-1506	
AF	Holst et al., "Molecular Cloning, Genomic Organization, and Expression of a Testicular Isoform of Hormone-Sensitive Lipase", <i>Genomics</i> <b>1996</b> 35: 441-447	
AG	Jepson et al., "Inhibition of hormone-sensitive lipase by intermediary lipid metabolites", <i>FEBS</i> <b>1992</b> 310(2):197-200	
AH	Levitt et al., "Mapping of the gene for hormone sensitive lipase (LIPE) to chromosome 19q13.1-13.2", <i>Cytogenet Cell Genet</i> <b>1995</b> 69:211-214	
AI	Mulder et al., "Hormone-Sensitive Lipase, the Rate-Limiting Enzyme in Triglyceride Hydrolysis, Is Expressed and Active in $\beta$ -Cells", <i>Diabetes</i> <b>1999</b> 48:228-232	
<b>EXAMINER</b>		<b>DATE CONSIDERED</b>



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Form ~~PTO-149~~ Modified

List of Patents and Publications  
Cited by Applicant  
(Use several sheets if necessary)

U.S. Department of Commerce

Docket No.  
**ISPH-0587**

Serial No.  
**09/915,814**

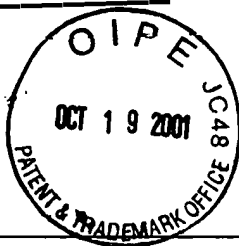
Applicant  
**Butler et al.**

Filing Date  
**July 26, 2001**

Group  
**Not Yet Assigned**

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

AJ	Osuga et al., "Suppression of Neutral Cholesterol Ester Hydrolase Activity by Antisense DNA of Hormone-Sensitive Lipase", <i>Biochem. and Biophysical Res. Commun.</i> <b>1997</b> 233:655-657
AK	Osuga et al., "Targeted disruption of hormone-sensitive lipase results in male sterility and adipocyte hypertrophy, but not in obesity", <i>PNAS</i> <b>2000</b> 97:787-792
AL	Palmer et al., "Poloxamer 407-induced antherogenesis in the C57BL/6 mouse", <i>Atherosclerosis</i> <b>1998</b> 115-123
AM	Plée-Gautier et al., "Inhibition of hormone-sensitive lipase gene expression by cAMP and phorbol esters in 3T3-F442A and BFC-1 adipocytes", <i>Biochem. J.</i> <b>1996</b> 318:1057-1063
AN	Saltiel A.R., "Another hormone-sensitive triglyceride lipase in fact cells?", <i>PNAS</i> <b>2000</b> 97(2):535-537
<b>EXAMINER</b>	
<b>DATE CONSIDERED</b>	



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## Form PTO-1449 Modified

List of Patents and Publications  
Cited by Applicant  
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July 26, 2001

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Not Yet Assigned

## U. S. PATENT DOCUMENTS

Examiner		Document	Date	Name	Class	Subclass

## FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Translation YES NO	
	AA	WO 01/26664A2	19-4-01	PCT	x	
	AB	WO 00/67025	9-11-00	PCT	x	
	AC	WO 01/17981A1	15-3-01	PCT		x
	AD	WO 00/27388	18-5-00	PCT	x	

EXAMINER

DATE CONSIDERED